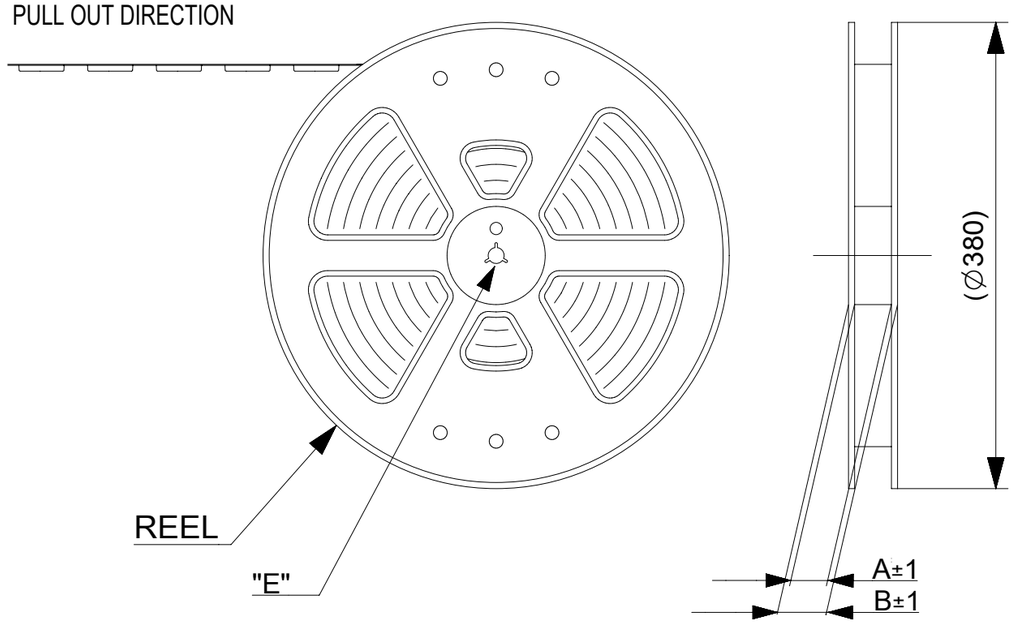
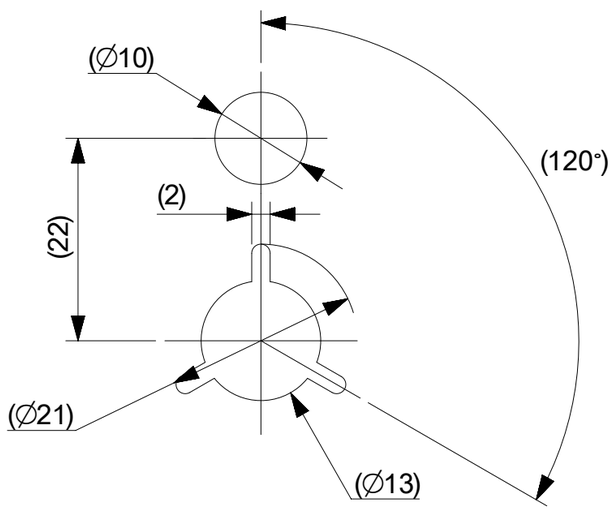
引き出し方向

PULL OUT DIRECTION



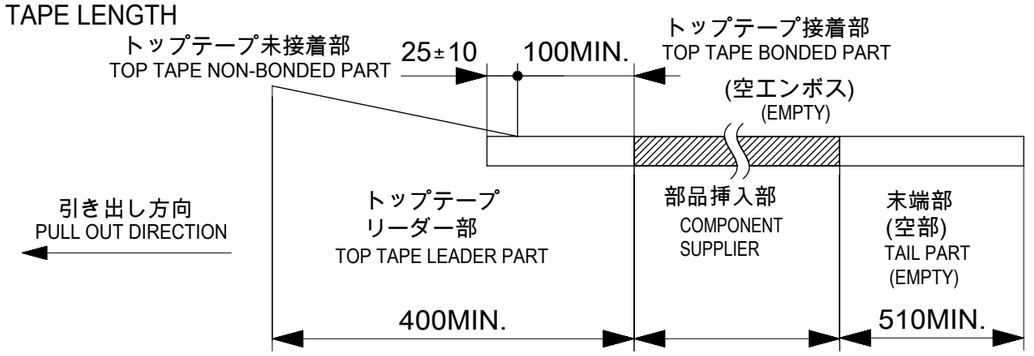


DETAIL "E"

NOTES

ELV&RoHS COMPLINT

1. 梱包数量： 2000個 / リール
   NUMBER OF CONNECTORS : 2000 PCS/REEL
2. リードテープ長さ
   LEAD TAPE LENGTH



3. トップテープの剥離強度については、IEC60286-3に準拠。
   TOP TAPE PEEL FORCE IS DEFINED BY IEC60286-3.
4. 製品詳細寸法については、図面781191001をご参照ください。
   REFER TO THE 781191001 ABOUT DIMENSIONS IN DETAIL.
5. 材料
   キャリアテープ：ポリスチレン(PS)
   トップテープ　：PET,OTHER
   リール　　：ポリスチレン(PS)(リサイクル材を含む)
   MATERIAL
   CARRIER TAPE : POLYSTYRENE(PS)
   TOP TAPE : PET,OTHER
   REEL : POLYSTYRENE(PS) (RECYCLE MATERIAL CONTAINED)
6. 環境負荷物質の管理のため「化学物質ガイドライン」の内容を満足すること。
   "CHEMICAL SUBSTANCES GUIDELINE" SHALL BE APPLIED FOR MANAGEMENT OF ENVIRONMENTAL HAZARDOUS MATERIALS.

CONNECTOR SERIES NO. 78119**15

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	~~2:1~~

GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	±	1.0 °
4 PLACES	±	0.1
3 PLACES	±	0.1
2 PLACES	±	0.1
1 PLACE	±	0.1
0 PLACES	±	0.1

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 677105
DRWN: NARENC 2021/09/07
CHK'D: TKON 2021/09/13
APPR: SHOSHIKAWA 2021/09/16

INITIAL REVISION:
DRWN: NASANUMA 2016/04/19
APPR: KMORIKAWA 2016/08/02

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 78119

molex

0.5 FPC CONN. N-ZIF ST SNBI EMBS TP PKG

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
781190001	PSD	000	B

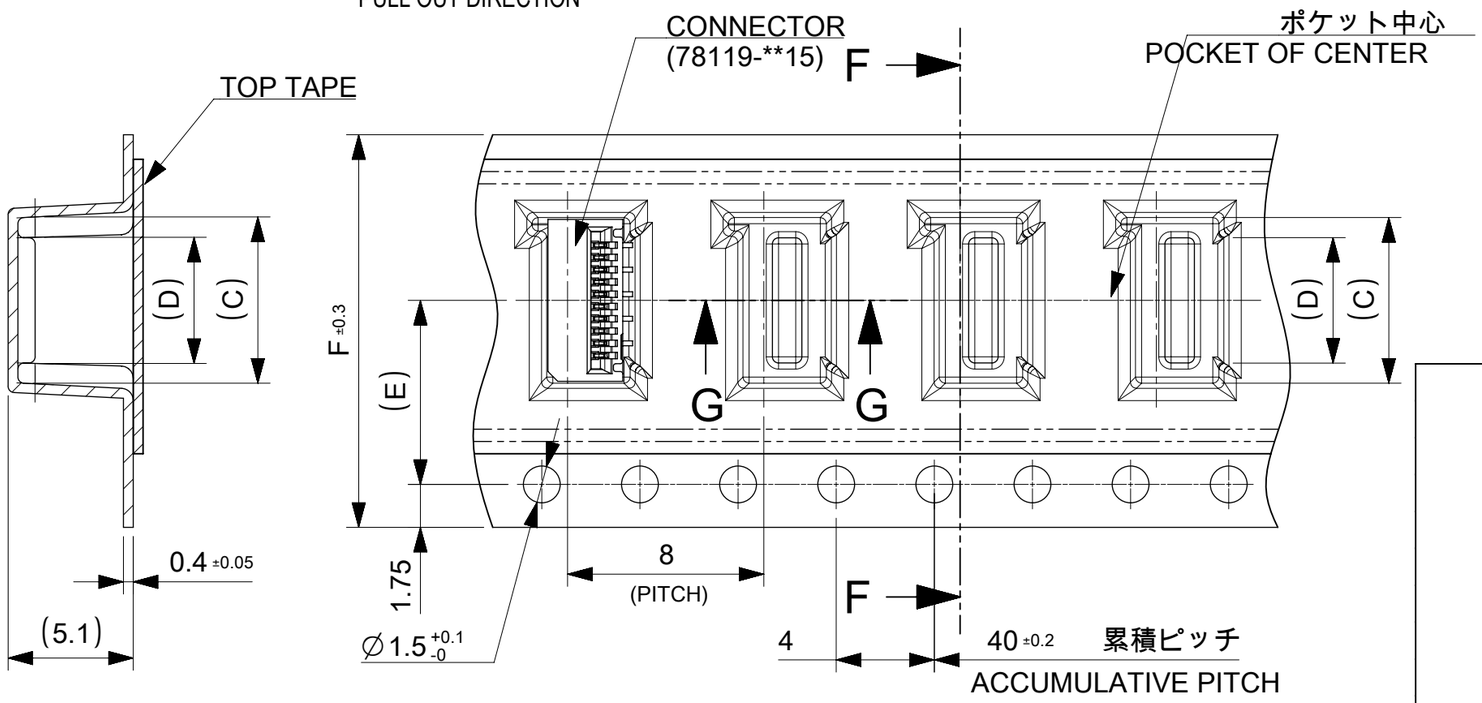
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		1 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2021/09/16 03:08:08

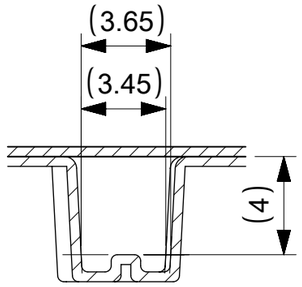
FORMAT: master-lb-prod-A3
REVISION: J
DATE: 2020/01/14

ELV&RoHS COMPLINT

引き出し方向
PULL OUT DIRECTION



SECTION F-F



SECTION G-G

F TAPE WIDTH	E	D	C	B	A	EMBOSSED PACKAGE オーダー番号 ORDER NO	CIRCUIT
24	11.5	14.1	15.8	29.4	25.4	781192810	28
		13.6	15.3			781192710	27
		13.1	14.8			781192610	26
		12.6	14.3			781192510	25
		12.1	13.8			781192410	24
		11.6	13.3			781192310	23
		11.1	12.8			781192210	22
		10.6	12.3			781192110	21
		10.1	11.8			781192010	20
		9.6	11.3			781191910	19
		9.1	10.8			781191810	18
		8.6	10.3			781191710	17
		8.1	9.8			781191610	16
		7.6	9.3			781191510	15
16	7.5	7.1	8.8	21.4	17.4	781191410	14
		6.6	8.3			781191310	13
		6.1	7.8			781191210	12
		5.6	7.3			781191110	11
		5.1	6.8			781191010	10
		4.6	6.3			781190910	9
		4.1	5.8			781190810	8
		3.6	5.3			781190710	7
		3.1	4.8			781190610	6

16mm, 24mm幅キャリアテープ

16mm, 24mm WIDTH CARIER TAPE

CONNECTOR SERIES NO. 78119**15

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE
mm	4:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	±	1.0 °
4 PLACES	±	0.1
3 PLACES	±	0.1
2 PLACES	±	0.1
1 PLACE	±	0.1
0 PLACES	±	0.1

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 677105
DRWN: NARENC 2021/09/07
CHK'D: TKON 2021/09/13
APPR: SHOSHIKAWA 2021/09/16

INITIAL REVISION:
DRWN: NASANUMA 2016/04/19
APPR: KMORIKAWA 2016/08/02

molex

0.5 FPC CONN. N-ZIF ST SNBI EMBS TP PKG

PRODUCT CUSTOMER DRAWING

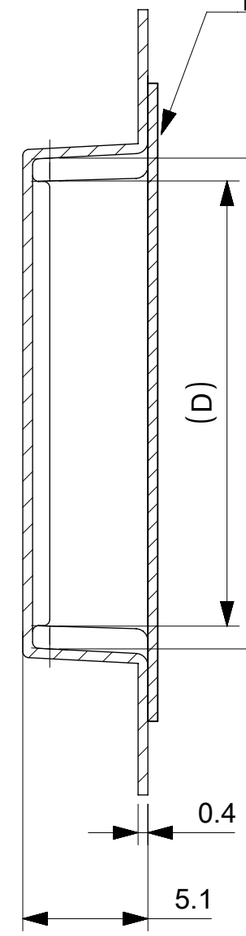
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
781190001	PSD	000	B

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	78119			2 OF 3

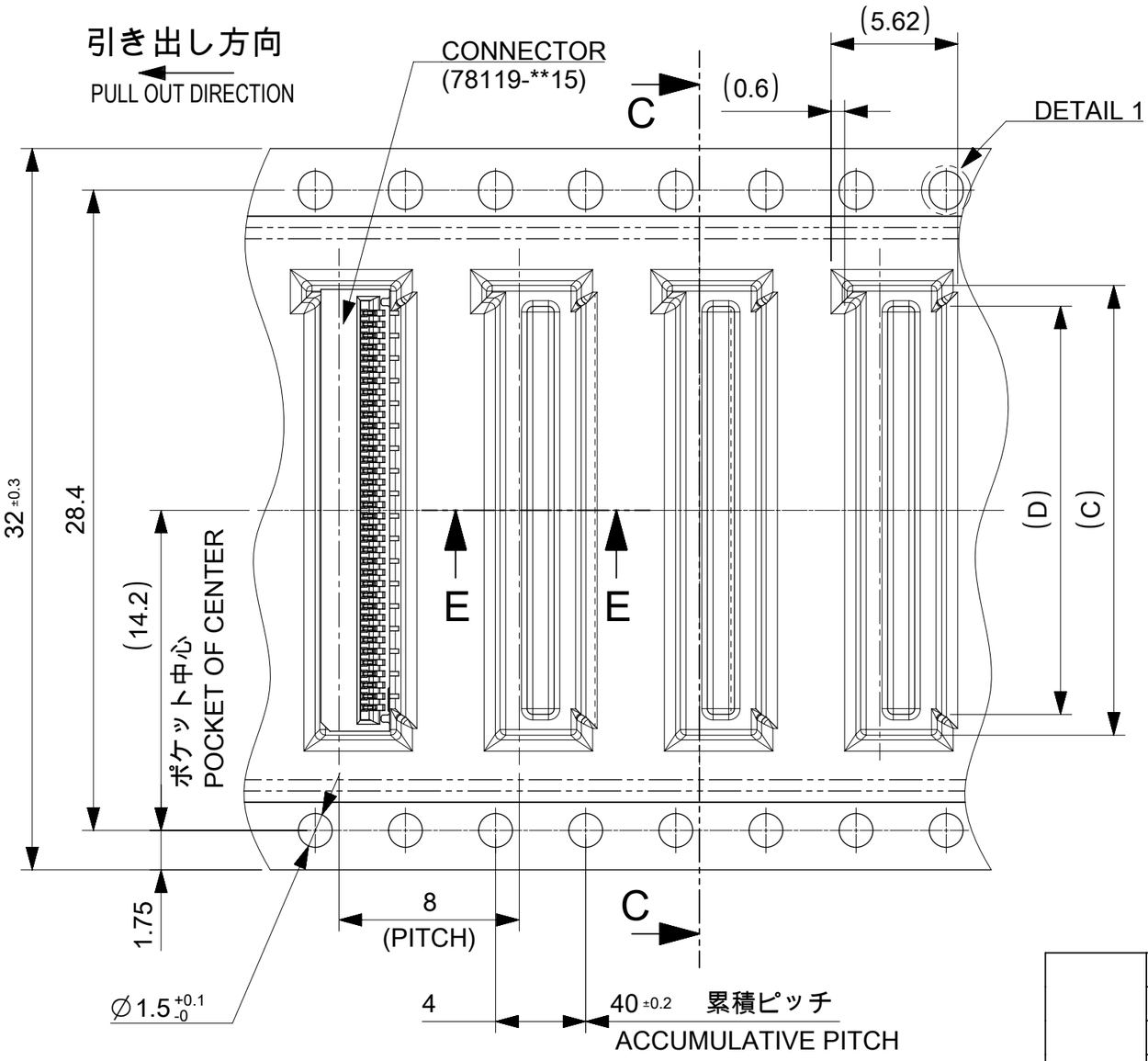
DOCUMENT STATUS	P1	RELEASE DATE	2021/09/16 03:08:08

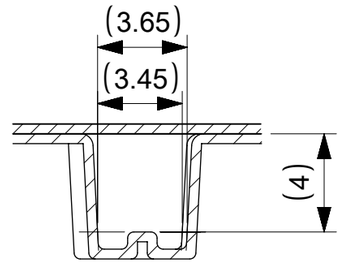
FORMAT: master-tb-prod-A3
REVISION: J
DATE: 2020/01/14

ELV&RoHS COMPLINT

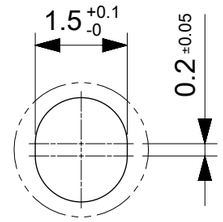


SECTION C-C





SECTION E-E



DETAIL 1
SCALE 10:1

32	18.1	19.8	37.4	33.4	781193610	36
	17.6	19.3			781193510	35
	17.1	18.8			781193410	34
	16.6	18.3			781193310	33
	16.1	17.8			781193210	32
	15.6	17.3			781193110	31
	15.1	16.8			781193010	30
	14.6	16.3			781192910	29
TAPE WIDTH	D	C	B	A	EMBOSSED PACKAGE オーダー番号 ORDER NO	CIRCUIT

32mm幅キャリアテープ
32mm WIDTH CARRIER TAPE

CONNECTOR SERIES NO. 78119**15

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	mm
SCALE	4:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 1.0 °
4 PLACES	± 0.1
3 PLACES	± 0.1
2 PLACES	± 0.1
1 PLACE	± 0.1
0 PLACES	± 0.1
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

CURRENT REV DESC:

EC NO: 677105
DRWN: NARENC 2021/09/07
CHK'D: TKON 2021/09/13
APPR: SHOSHIKAWA 2021/09/16

INITIAL REVISION:
DRWN: NASANUMA 2016/04/19
APPR: KMORIKAWA 2016/08/02

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 78119

molex

0.5 FPC CONN. N-ZIF ST SNBI EMBS TP PKG

PRODUCT CUSTOMER DRAWING

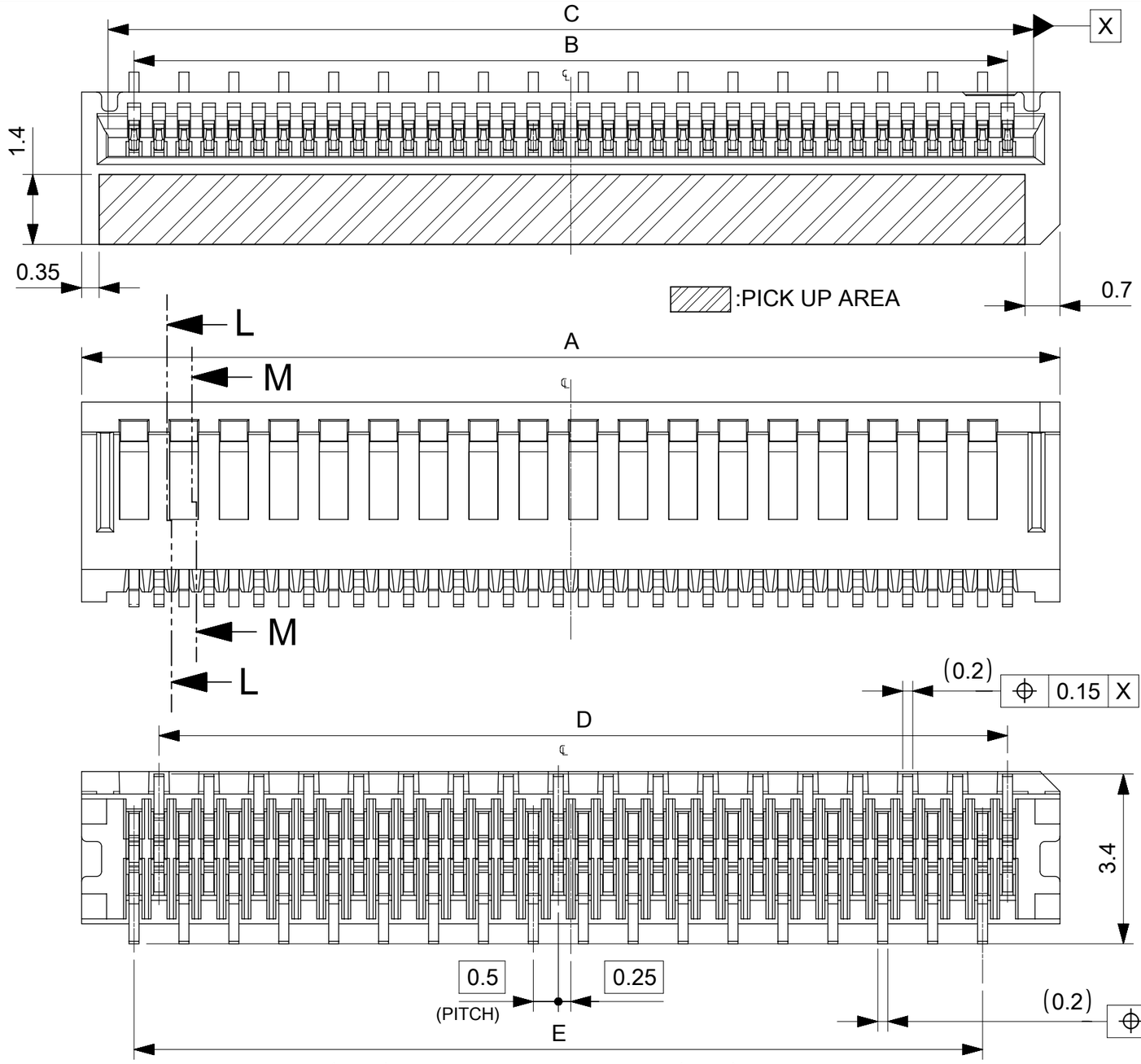
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
781190001	PSD	000	B

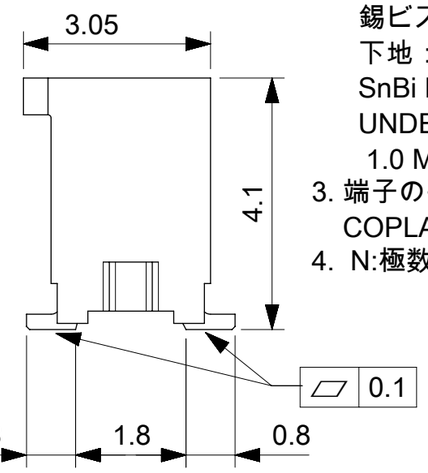
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		3 OF 3

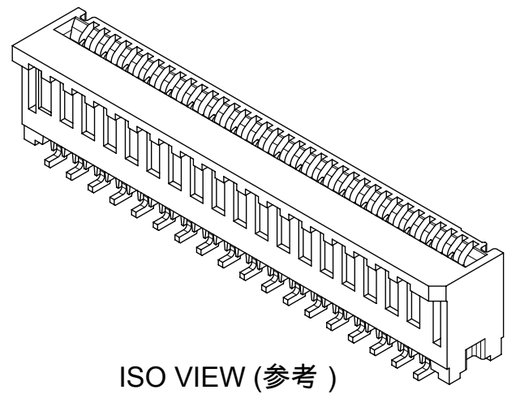
DOCUMENT STATUS	P1	RELEASE DATE	2021/09/16 03:08:08

FORMAT: master-tb-prod-A3
REVISION: J
DATE: 2020/01/14

ELV&RoHS COMPLIANT



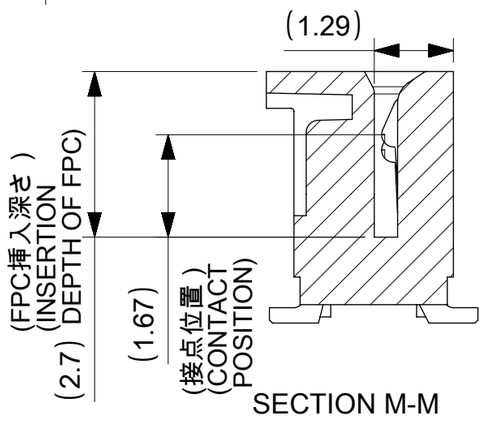




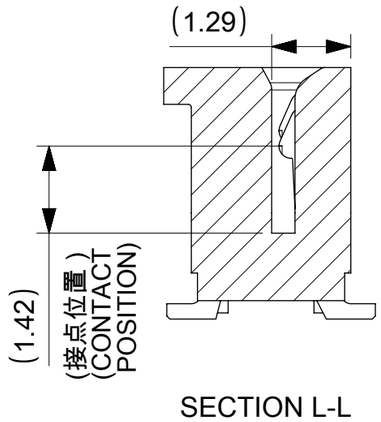
ISO VIEW (参考)

NOTES

1. 使用材料 MATERIALS
   ハウジング　：液晶ポリマー(LCP)
   ガラス充填、UL94 V-0、黒色
   端子　：リン青銅　t=0.2mm
   HOUSING　:LIQUID QLYSTAL POLYMER(LCP)
   GLASS FILLED, UL94 V-0, BLACK
   TERMINAL:PHOSPHOR BRONZE t=0.2mm
2. メッキ仕様 PLATING
   端子 TERMINAL
   錫ビスマスメッキ 1.0μm以上
   下地：ニッケルメッキ 1.0μm以上
   SnBi PLATING 1.0 MICROMETER MINIMUM
   UNDER PLATING:Nickel PLATING
   1.0 MICROMETER MINIMUM
3. 端子の平坦度はテール部にて0.1mm以下とする。
   COPLANALITY OF SOLDER TAILS:0.1mmMAX.
4. N:極数　N:CIRCUIT



SECTION M-M



SECTION L-L

CONNECTOR SERIES NO. 78119**15

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO:	107065	2016/08/02	
DRWN:	NASANUMA	2016/08/01	
CHK'D:	YKOBAYASHI02	2016/01/25	
APPR:	KMORIKAWA		

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES	± 0.1
3 PLACES	± 0.1
2 PLACES	± 0.1
1 PLACE	± 0.1
0 PLACES	± 0.1

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A

DIMENSION UNITS: MM　SCALE: 10:1

DRWN BY: NASANUMA　DATE: 2016/01/25

CHK'D BY: YKOBAYASHI02　DATE: 2016/08/01

APPR BY: KMORIKAWA　DATE: 2016/08/02

DRAWING SIZE: A3　THIRD ANGLE PROJECTION

molex

0.5 PITCH NON-ZIF CONN. SMT ST ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
78119		

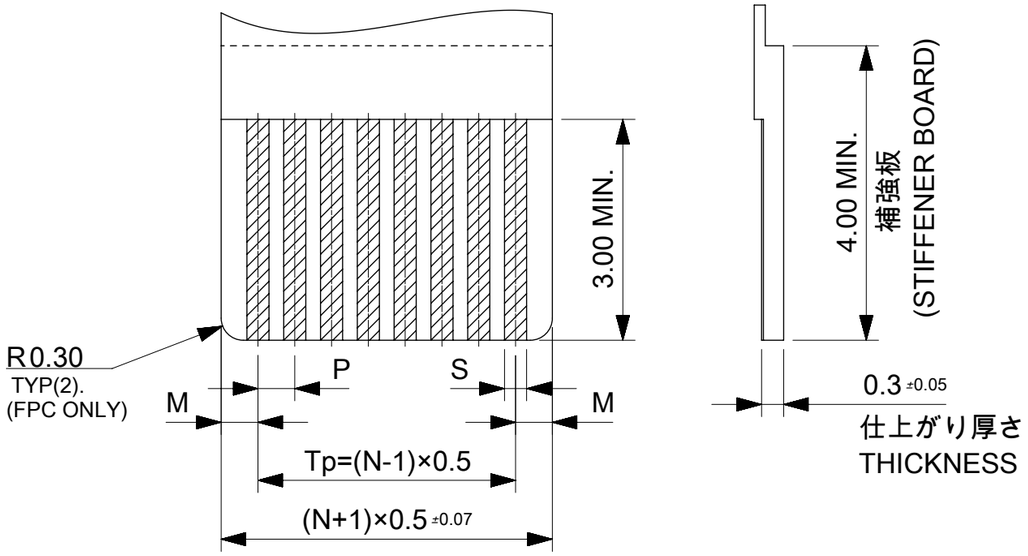
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
781191001	PSD	000	1 OF 3

RELEASE STATUS	P1	RELEASE DATE	02.08.2016　00:40:28

FORMAT: master-tb-prod-A3
REVISION: F
DATE: 2015/11/16

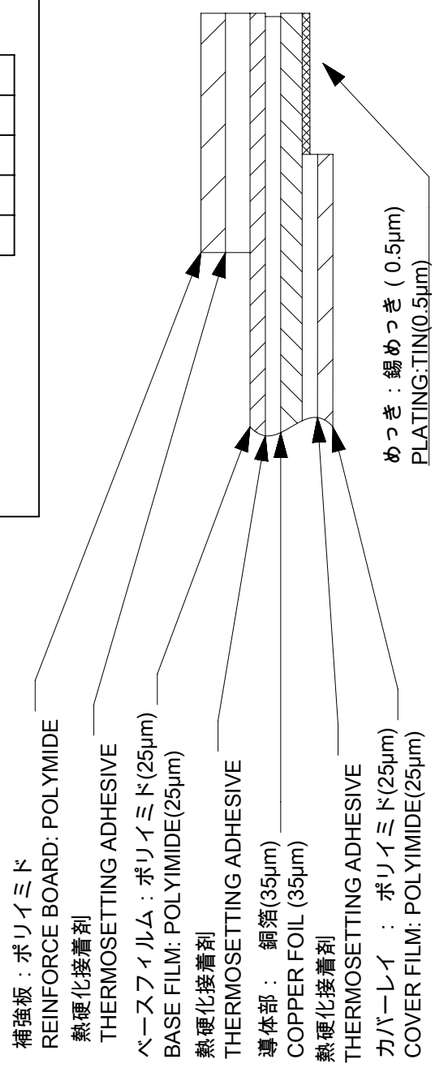
ELV & RoHS COMPLIANT

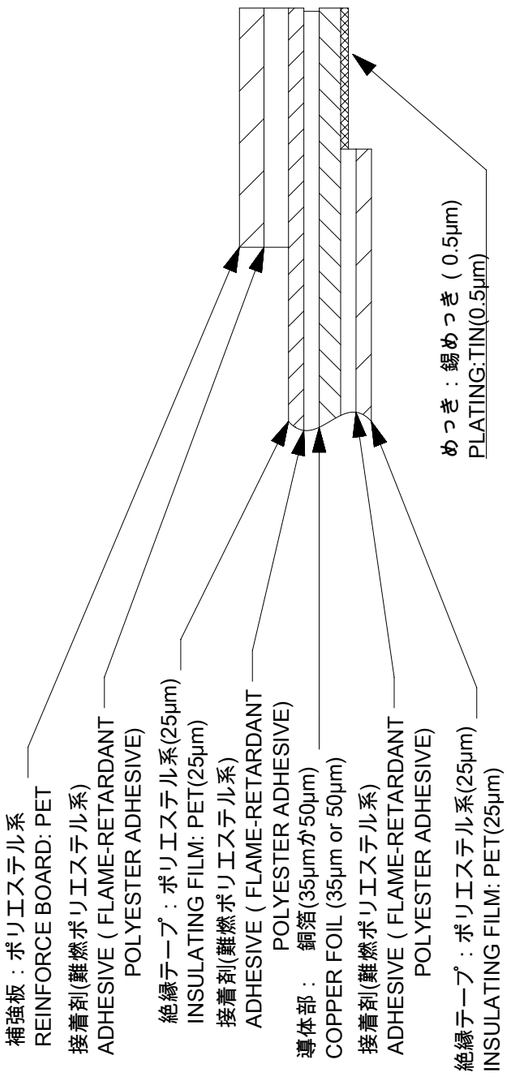
適合FPC/FFC推奨寸法
APPLICABLE FPC/FFC
RECOMMENDED DIMENSION



S	0.30 $^{+0.05}_{-0.02}$	0.35 $^{+0.05}_{-0}$
P	0.50±0.05	0.50±0.05
M	0.50±0.08	0.50±0.10
Tp	Tp±0.05	Tp±0.05
	FFC	FPC

FPC/FFCについて
打抜き方向は導体側から補強版側を推奨します。
導体部については軟箔銅35μmまたは、50μmを推奨いたします。
接着剤の接点部への付着は導通不良の原因になりますので、染み出し無きことを推奨いたします。
FPC/FFCに規定された定格温度が、FPC/FFC単体前提である場合が御座います。
コネクタと組み合わせての実使用において、接着層が劣化する等の信頼性を満足できないケースを回避する為、実機での評価 / 確認をお願い致します。
ABOUT FPC/FFC
RECOMMENDED PUNCHING DIRECTION:FROM CONDUCTOR SIDE TO STIFFENER SIDE.
RECOMMENDED CONDUCTOR SPEC:SOFT COPPER FOIL.
RECOMMENDED CONDUCTOR THICKNESS:35 MICROMETER OR 50 MICROMETER.
RECOMMENDED PUT APPROPRIATE AMOUNT OF ADHESIVE ON ADHEREND BECAUSE THERE IS A POSSIBILITY THAT EXTRA ADHESIVE CAUSES THE DEFECT IN ELECTRICAL CONTINUITY.
THE HEAT RESISTANCE OF FPC/FFC IS ONLY FPC/FFC SPEC.
TO PREVENT THE CASE THAT RELIABILITY CANNOT BE SATISFIED (THE ADHESIVE IS DETERIORATED etc,)PLEASE DO THE EVALUATION AND THE CONFIRMATION WITH ACTUAL CONNECTOR.
FPCについて
補強フィルム材は、ポリイミドを推奨します。ベースフィルムは25μmを推奨します。
接着剤は熱硬化接着剤を推奨します。
ABOUT FPC
RECOMMENDED STIFFENER MATERIAL:POLYIMIDE.
RECOMMENDED BASE FILM THICKNESS:25 MICROMETER.
RECOMMENDED ADHESIVE:THERMOSETTING ADHESIVE.





FPC構成推奨仕様
STRUCTURE OF FPC

FFC構成推奨仕様
STRUCTURE OF FFC

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 107065 2016/01/25
DRWN: NASANUMA 2016/08/01
CHK'D: YKOBAYASHI02 2016/08/02
APPR: KMORIKAWA

REV
A

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °

4 PLACES	±	0.1
3 PLACES	±	0.1
2 PLACES	±	0.1
1 PLACE	±	0.1
0 PLACES	±	0.1

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: MM
SCALE: 12:1
DRWN BY: NASANUMA DATE: 2016/01/25
CHK'D BY: YKOBAYASHI02 DATE: 2016/08/01
APPR BY: KMORIKAWA DATE: 2016/08/02
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

molex

0.5 PITCH NON-ZIF CONN. SMT ST ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
78119		

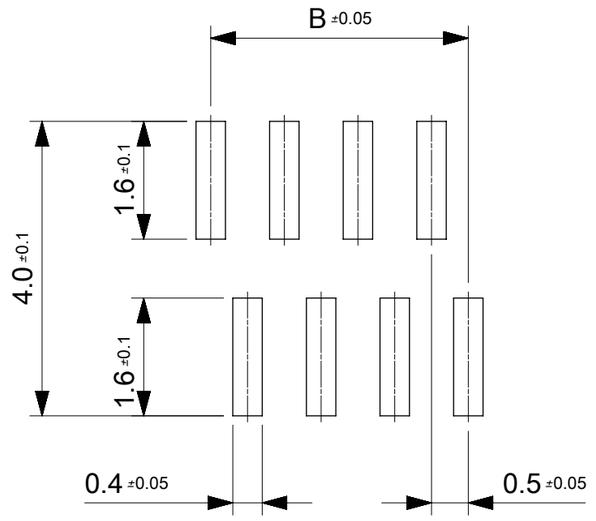
DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
781191001	PSD	000	2 OF 3

RELEASE STATUS	P1	RELEASE DATE	02.08.2016 00:40:28

FORMAT: master-lb-prod-A3
REVISION: F
DATE: 2015/11/16

ELV & RoHS COMPLIANT

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9	10	11.1	10	12.1	781192110	21
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3	4	5.1	4	6.1	781190910	9
3	3	4.6	3.5	5.6	781190810	8
2	3	4.1	3	5.1	781190710	7
2	2	3.6	2.5	4.6	781190610	6
E	D	C	B	A	EMBOSSED PACKAGE オーダー番号 ORDER NO.	CIRCUIT



参考マスク厚:100μm
参考開口率:100%
REFERENCE SCREEN THICKNESS:100
REFERENCE SCREEN OPEN RATIO:100%

推奨基板レイアウト
RECOMMENDED PCB LAYOUT

CONNECTOR SERIES NO. 78119**15

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

EC NO: 107065 2016/01/25
DRWN: NASANUMA 2016/08/01
CHK'D: YKOBAYASHI02 2016/08/02
APPR: KMORIKAWA 2016/08/02

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± 1.0 °

4 PLACES	±	0.1
3 PLACES	±	0.1
2 PLACES	±	0.1
1 PLACE	±	0.1
0 PLACES	±	0.1

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REV: A

DIMENSION UNITS: MM
SCALE: 12:1
DRWN BY: NASANUMA DATE: 2016/01/25
CHK'D BY: YKOBAYASHI02 DATE: 2016/08/01
APPR BY: KMORIKAWA DATE: 2016/08/02
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

molex

0.5 PITCH NON-ZIF CONN. SMT ST ASSY

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
78119		

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
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